



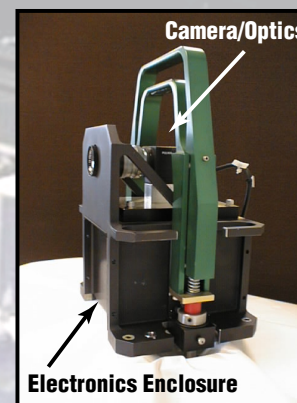
Glenn Research Center



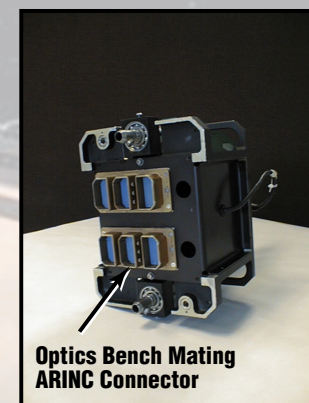
Science Diagnostics

Science Diagnostics Modular Camera Bracket

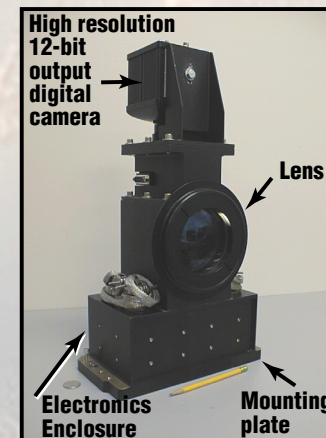
- Seven diagnostic packages are under development:
 - High Bit Depth/Multispectral Imaging Package (HiBMs)
 - High Frame Rate/High Resolution
 - Color Camera
 - Low Light Level (2 units)
 - Mid-IR Camera
 - Illumination Package
- Digital imaging systems are used where feasible to collect and store data of the highest possible fidelity
- Real time processing techniques are used for closed loop operational control
- Images are stored on high density disk drives for later downlink
- The packages are being designed for performance and technology upgrades
- Particle Image Velocimetry (PIV), Schlieren, interferometry and long range IR are all growth candidates which are presently envisioned
- Additional diagnostics provided by PI-hardware



Side View/Latch



Bottom View



High Bit Depth/Multi-Spectral Imaging Diagnostics Package